Subject Index to Volume 39 (1991)

James Herbert Shea

ADVERTISERS

61 Smithsonian Institute
66 John Wiley & Sons
78 Oxford University Press
84 Spectrex
165 Smithsonian Institution
168 Spectrex
268 Spectrex
348 Oxford University Press
353 Geological Society of America
360 Spectrex
422 American Geological Institute
438 John Wiley & Sons, Inc.
459 Far Western Section, NAGT
460 Spectrex

AMERICAN GEOLOGICAL INSTITUTE

77 AGI's minority geoscience scholarships triple for 1990-91
103-104 Groat, C.G.
The American Geological Institute and geoscience education
270, Stout, D.L.
354-355 President's message - Progress in the geosciences at the national level
349-353 Grogger, P.K., and Cross, W.II
You don't mean I've been teaching something wrong? And other questions asked and answered
362 Stout, D.L.
Message from NAGT President Dorothy Stout

APPARATUS

12-14 Zaffo, P.A.
Tabletop aurora demonstrator
15-18 Railsback, L.B.
A model for teaching the dynamical theory of tides
44-47 Cawthorn, R.G.
Simulation of layered magma chambers
160 Duex, T.W.
"Roll model" for illustrating geologic time
303-305 Bart, H.A.
A hands-on approach to understanding topographic maps and their construction
306-310 Gerencher, J.J.Jr., and Jackson, R.F.
Classroom utilization of a multi-axis Lehman seismograph system
361-362 Davidson, M.W., and Lofgren, G.E.
Cover photomicrograph of thin section of lunar basalt
364-367 Piazzola, J., and Cavaroc, V.V.
Comparison of grain-size-distribution statistics determined by sieving and by thin-section analyses
403-418 Davidson, M.W., and Lofgren, G.E.
Photomicrography in the geological sciences

AREAL GEOLOGY – GENERAL

AREAL GEOLOGY – MAPS, CHARTS, PHOTOGRAPHS

69 Haney, D.C.
Food for thought
70-73 Jorstad, R.B.
Down-to-earth software reviews
206-213 Carson, R.J., and Sadd, J.L.
Land-use-planning writing assignment for an environmental-geology course
303-305 Bart, H.A.
A hands-on approach to understanding topographic maps and their construction

ASTRONOMY

CARTOONS

12 Fischman, S.
Cartoon on Pleistocene author and publisher
145 Fischman, S.
Cartoon about transgressive stratigraphic sequence
184 Fischman, S.
Cartoon on writing for geology classes
312 Fischman, S.
Cartoon on fault interpretation
387 Fischman, S.
Cartoon on the discovery of fire

CREATIONSIM

EARTH SCIENCE – GENERAL

48-51 Starr, E.M.
The history of the development of earth-science programs in higher education

EARTH SCIENCE – TEACHING AND CURRICULUM

15-18 Railsback, L.B.
A model for teaching the dynamical theory of tides
28-30 Hazen, R.M., and Trefil, J.S.
Achieving geological literacy
35-43 Custer, S.G.
Snow as a field-teaching medium for earth science
48-51 Starr, E.M.
The history of the development of earth-science programs in higher education
185-187 Schneiderman, J.S.
Learning geology by writing about the history of geology
279-283 D'Allura, J.A.
Interactive education in an introductory environmental-geology course

EARTH SCIENCE – TEACHER EDUCATION

48-51 Starr, E.M.
The history of the development of earth-science programs in higher education
185-187 Schneiderman, J.S.
Learning geology by writing about the history of geology
272-278 Hannibal, J.T.
Interpreting urban geology

ECONOMIC GEOLOGY – GENERAL AND MINING GEOLOGY

311-312 Hatfield, C.B.
Use of current news in teaching geology

ECONOMIC GEOLOGY - ENERGY SOURCES

226 Groat, C.G.
Food for thought

ECONOMIC GEOLOGY - METALS

ECONOMIC GEOLOGY - NONMETALS

EDUCATION - GENERAL

6-8 Hayes, J.B., and Bailey, S.W.
Sturges W. Bailey: Neil Miner Awardee for 1990

11 Paulos, J.A.
Food for thought

18 Moore, J.A.
Food for thought

27 Nielsen, R.
Food for thought

30 Amer. Assoc. Adv. Sci.
Food for thought

98-100 Press, F.
Geoscience education as viewed from the National Academy of Sciences

100 Moore, J.A.
Food for thought

141 Relf, G.
Food for thought

146-149 Picard, M.D.
A geologist at sea

237-239 Elberty, W.T.Jr., and Romey, W.D.
"What are you interested in" as a writing assignment theme

302 Amer. Assoc. Adv. Sci.
Food for thought

331-332 Nappi, C.R.
On mathematics and science education in the US and Europe

EDUCATION - AUDIO VISUAL

373-375 Gunter, M.E.
In-class computer demonstrations for physical geology

EDUCATION - COMPUTER ASSISTED

23-27 Bjornerud, M.G.
Conveying principles of finite strain with standard graphics software

52-55 Singh, R.J.
Diagrams and test files for use in introductory geology courses

70-73 Jorstad, R.B.
Down-to-earth software reviews

127-132 Dutch, S.I.
Geochemical calculations using spreadsheets

127-132 Dutch, S.I.
Geochemical calculations using spreadsheets

227-229 Snow, R.S.
Early writing in the research mode via digital modeling of rivers

263-264 Jorstad, R.B.
Down-to-Earth software reviews

284-288 Bezzi, A.
A Macintosh program for improving three-dimensional thinking

289-290 Gunter, M.E., and Schares, S.M.
Computerized optical-mineralogy calculations

303-305 Bart, H.A.
A hands-on approach to understanding topographic maps and their construction

306-310 Gerencher, J.J.Jr., and Jackson, R.F.
Classroom utilization of a multi-axis Lehman seismograph system

319-321 Corgan, J.X., and Walker, R.E.
Using *Time-machine Earth* in the classroom

322-324 De Paor, D.G.
A modern solution to the classical three-point problem

332 Jorstad, R.B.
Down-to-Earth software reviews

367-369 Ward, R.F.
Improved accuracy for CIPW norms

373-375 Gunter, M.E.
In-class computer demonstrations for physical geology

388-392 Shea, J.H.
A computer-based subduction-zone-earthquake exercise for introductory-geology classes

423-427 Grogger, P.K., and Cross, W.II
You don't mean I've been teaching something wrong? and other questions asked and answered

EDUCATION - GEOSCIENCE

4-5 Stenstrom, R.C.
Teaching, research, and promotion - Is science education in decay?

8 Volpe, E.P.
Food for thought

15-18 Railsback, L.B.
A model for teaching the dynamical theory of tides

28-30 Hazen, R.M., and Trefil, J.S.
Achieving geological literacy

31-33 Emiliani, C.
Avogadro Number and mole: a royal confusion

89-92 Stout, D.L.
The National Association of Geology Teachers and its role in geoscience education

92-94 Harrison, C.
The role of the American Geophysical Union in geoscience education

95-98 Peck, D.L.
Role of the federal government in geoscience education

98-100 Press, F.
Geoscience education as viewed from the National Academy of Sciences

101-102 Roberts, S.M.
The Association of Earth Science Editors and precollege geoscience education

103-104 Groat, C.G.
The American Geological Institute and geoscience education

104-105 Lerud, J.V.O.
The Geoscience Information Society and geoscience education

106-108 Suiter, M.
The Association of Woman Geoscientists and geoscience education

108-110 Brunkhorst, B.J.
The National Science Teachers Association and geoscience education

111-112 Curtis, D.M.
The Geological Society of America's "Science Awareness Through Geoscience Education" (SAGE) Program

113-117 Ostrom, M.E.
State geological surveys and geoscience education
117-118 Ireton, F.W.
The National Earth Science Teachers Association (NESTA) and geoscience education
118-120 Gibbs, J.A.
The American Association of Petroleum Geologists and geoscience education
120-121 Schneiderman, J.S.
Historical inquiry spurs research curiosity
142-145 Palmer, A.R.
What should my neighbor (and thus every high-school graduate) know about the geosciences?
270, Stout, D.L.
354-355 President's message – Progress in the geosciences at the national level
362 Stout, D.L.
Message from NAGT President Dorothy Stout

EDUCATION - GRADUATE

55 Bloch, E.
Food for thought
221-223 Evans, J.E.
Research-grant proposals as a class writing assignment in a graduate-level geology course

EDUCATION - LABORATORY

190-195 Niemitz, J.W., and Potter, N. Jr.
The scientific method and writing in introductory landscape-development laboratories

EDUCATION - MUSEUM

272-278 Hannibal, J.T.
Interpreting urban geology

EDUCATION - OUTSIDE UNITED STATES

331-332 Nappi, C.R.
On mathematics and science education in the US and Europe

EDUCATION - PRECOLLEGE

89-92 Stout, D.L.
The National Association of Geology Teachers and its role in geoscience education
92-94 Harrison, C.
The role of the American Geophysical Union in geoscience education
95-98 Peck, D.L.
Role of the federal government in geoscience education
101-102 Roberts, S.M.
The Association of Earth Science Editors and precollege geoscience education
103-104 Groat, C.G.
The American Geological Institute and geoscience education
106-108 Suiter, M.
The Association of Woman Geoscientists and geoscience education
108-110 Brunkhorst, B.J.
The National Science Teachers Association and geoscience education
111-112 Curtis, D.M.
The Geological Society of America's "Science Awareness Through Geoscience Education" (SAGE) Program
113-117 Ostrom, M.E.
State geological surveys and geoscience education
117-118 Ireton, F.W.
The National Earth Science Teachers Association (NESTA) and geoscience education
118-120 Gibbs, J.A.
The American Association of Petroleum Geologists and geoscience education
122-126 Davies, D.J.
Revel in geology! Geological science education for the entire community
126 Green, K.C.
Food for thought
142-145 Palmer, A.R.
What should my neighbor (and thus every high-school graduate) know about the geosciences?
163-165 Grogger, P.K., and Cross, W. II
You don't mean I've been teaching something wrong? and other questions asked and answered
165 SEPM
Guide for helping precollege teachers
169-170 Macdonald, R.H.
Cover photo of fossil right whale being excavated from the Pliocene Yorktown Formation, Hampton, VA.
174-175 Millette, P.M.
Real-world writing in as secondary-school earth-science class
176-177 Jones, B.W.B.
Writing-to-learn assignments for secondary-school earth-science classes
203 Paulos, J.A.
Food for thought
247-253 Brown, C.Q.
Outstanding earth-science teachers - 1990
265-266 Grogger, P.K., and Cross, W.II
You don't mean I've been teaching something wrong? and other questions asked and answered
270, Stout, D.L.
354-355 President's message - Progress in the geosciences at the national level
331-332 Nappi, C.R.
On mathematics and science education in the US and Europe
349-353 Grogger, P.K., and Cross, W.II
You don't mean I've been teaching something wrong? And other questions asked and answered
358 Bliss, V.
Science teachers invited to geology meeting
376-378 Stout, D.L.
Science exhibitions promote college and community interaction
423-427 Grogger, P.K., and Cross, W.II
You don't mean I've been teaching something wrong? and other questions asked and answered
443 Stadum, C.J.
Far Western OEST

EDUCATION - SCIENCE

6-8 Hayes, J.B., and Bailey, S.W.
Sturges W. Bailey: Neil Miner Awardee for 1990
4-5 Stenstrom, R.C.
Teaching, research, and promotion - Is science education in decay?
8 Volpe, E.P.
Food for thought

11 Paulos, J.A.
Food for thought

18 Moore, J.A.
Food for thought

28-30 Hazen, R.M., and Trefil, J.S.
Achieving geological literacy

30 Amer. Assoc. Adv. Sci.
Food for thought

31-33 Emiliani, C.
Avogadro Number and mole: a royal confusion

48-51 Starr, E.M.
The history of the development of earth-science programs in higher education

55 Bloch, E.
Food for thought

89-92 Stout, D.L.
The National Association of Geology Teachers and its role in geoscience education

92-94 Harrison, C.
The role of the American Geophysical Union in geoscience education

95-98 Peck, D.L.
Role of the federal government in geoscience education

101-102 Roberts, S.M.
The Association of Earth Science Editors and precollege geoscience education

101-102 Roberts, S.M.
The Association of Earth Science Editors and precollege geoscience education

103-104 Groat, C.G.
The American Geological Institute and geoscience education

104-105 Lerud, J.V.O.
The Geoscience Information Society and geoscience education

106-108 Suiter, M.
The Association of Woman Geoscientists and geoscience education

108-110 Brunkhorst, B.J.
The National Science Teachers Association and geoscience education

111-112 Curtis, D.M.
The Geological Society of America's "Science Awareness Through Geoscience Education" (SAGE) Program

113-117 Ostrom, M.E.
State geological surveys and geoscience education

117-118 Ireton, F.W.
The National Earth Science Teachers Association (NESTA) and geoscience education

118-120 Gibbs, J.A.
The American Association of Petroleum Geologists and geoscience education

126 Green, K.C.
Food for thought

132 Amer. Assoc. Adv. Sci.
Food for thought

141 Reif, G.
Food for thought

173 Proctor, R.N.
Food for thought

173 Macdonald, R.H., and Conrad, S.H.
Writing assignments as a tool for teaching and learning geology

176-177 Jones, B.W.B.
Writing-to-learn assignments for secondary-school earth-science classes

187-189 Coles, K.S.
Journal assignments in an introductory-geology course help the student and the teacher

195 Amer. Assoc. Adv. Sci.
Food for thought

196-198 Beiersdorfer, R.E., and Haynes, J.
An integrated approach to geologic writing for non-science majors based on study of a California river

202-203 Clemons, J.
Classroom strategies for introductory geology

203 Paulos, J.A.
Food for thought

206-213 Carson, R.J., and Sadd, J.L.
Land-use-planning writing assignment for an environmental-geology course

220 Culliton, B.J.
Food for thought

237-239 Elberty, W.T.Jr., and Romey, W.D.
"What are you interested in" as a writing assignment theme

240-242 Yelderman, J.C.Jr., and Hayward, O.T.
Geology through communication at Baylor University

270, Stout, D.L.

354-355 President's message – Progress in the geosciences at the national level

302 Amer. Assoc. Adv. Sci.
Food for thought

311-312 Hatfield, C.B.
Use of current news in teaching geology

319-321 Corgan, J.X., and Walker, R.E.
Using *Time-machine Earth* in the classroom

324 Tobias, S.
Food for thought

331-332 Nappi, C.R.
On mathematics and science education in the US and Europe

333-335 Moody, J.B., and Mosher, S.
Association for Women Geoscientists Foundation Outstanding Educator Award

372 Garfield, E.
Food for Thought

375 Hitchcock, J.
Food for Thought

376-378 Stout, D.L.
Science exhibitions promote college and community interaction

EDUCATION – SPECIAL CLIENTELE:
adult students, general public, learning disabled, physically handicapped

122-126 Davies, D.J.
Revel in geology! Geological science education for the entire community

169-170 Macdonald, R.H.
Cover photo of fossil right whale being excavated from the Pliocene Yorktown Formation, Hampton, VA.

220 Culliton, B.J.
Food for thought

272-278 Hannibal, J.T.
Interpreting urban geology

EDUCATION – TESTING AND EVALUATION

EDUCATION – UNDERGRADUATE

9-11 Ritger, S.D., and Cummins, R.H.
Using student-created metaphors to comprehend geologic time

27 Nielsen, R.
Food for thought

28-30 Hazen, R.M., and Trefil, J.S.
Achieving geological literacy

48-51 Starr, E.M.
The history of the development of earth-science programs in higher education

52-55 Singh, R.J.
Diagrams and test files for use in introductory geology courses

100 Moore, J.A.
Food for thought

126 Green, K.C.
Food for thought

146-149 Picard, M.D.
A geologist at sea

173 Macdonald, R.H., and Conrad, S.H.
Writing assignments as a tool for teaching and learning geology

178-180 Davis, L.E., Eves, R.L., Corner, H.M., and Urbanczyk, K.M.
Student writing as a tool for writing across the curriculum in large introductory-geology courses

181-184 Halsor, S.P., Faul-Halsor, C.L., and Heaman, P.B.
Enhanced student learning through writing in a physical-geology class

184 Fischman, S.
Cartoon on writing for geology classes

185-187 Schneiderman, J.S.
Learning geology by writing about the history of geology

190-195 Niemitz, J.W., and Potter, N. Jr.
The scientific method and writing in introductory landscape-development laboratories

195 Amer. Assoc. Adv. Sci.
Food for thought

196-198 Beiersdorfer, R.E., and Haynes, J.
An integrated approach to geologic writing for non-science majors based on study of a California river

199-201 Macdonald, R.H.
Writing assignments challenge students in a physical-geology course

202-203 Clemons, J.
Classroom strategies for introductory geology

204-205 Stanesco, J.D.
The personal journal as a learning and evaluation tool in geology field-trip courses

206-213 Carson, R.J., and Sadd, J.L.
Land-use-planning writing assignment for an environmental-geology course

213-216 Mendelson, C.V.
Constructional morphology and exaption as perspectives for a term project in paleontology

217-220 Fryer, K.H.
Regional geological context for a course in petrography

224-226 Allen, J.C.
Integrating undergraduate research with a writing program

230-231 Conrad, S.H., and Macdonald, R.H.
Balancing teaching and learning geology on the writing fulcrum

232-236 Mirsky, A.
Writing assignments as a continuum in geoscience education

279-283 D'Allura, J.A.
Interactive education in an introductory environmental-geology course

311-312 Hatfield, C.B.
Use of current news in teaching geology

325-330 Westerback, M.E., and Azer, N.
Realistic expectations for rock identification

333-335 Moody, J.B., and Mosher, S.
Association for Women Geoscientists Foundation Outstanding Educator Award

422 Allen, J.E.
Exercise in imagineering and writing

EDUCATION – BY WRITING AND SPEAKING

173 Macdonald, R.H., and Conrad, S.H.
Writing assignments as a tool for teaching and learning geology

174-175 Millette, P.M.
Real-world writing in as secondary-school earth-science class

176-177 Jones, B.W.B.
Writing-to-learn assignments for secondary-school earth-science classes

178-180 Davis, L.E., Eves, R.L., Corner, H.M., and Urbanczyk, K.M.
Student writing as a tool for writing across the curriculum in large introductory-geology courses

181-184 Halsor, S.P., Faul-Halsor, C.L., and Heaman, P.B.
Enhanced student learning through writing in a physical-geology class

184 Fischman, S.
Cartoon on writing for geology classes

185-187 Schneiderman, J.S.
Learning geology by writing about the history of geology

187-189 Coles, K.S.
Journal assignments in an introductory-geology course help the student and the teacher

190-195 Niemitz, J.W., and Potter, N. Jr.
The scientific method and writing in introductory landscape-development laboratories

196-198 Beiersdorfer, R.E., and Haynes, J.
An integrated approach to geologic writing for non-science majors based on study of a California river

199-201 Macdonald, R.H.
Writing assignments challenge students in a physical-geology course

202-203 Clemons, J.
Classroom strategies for introductory geology

204-205 Stanesco, J.D.
The personal journal as a learning and evaluation tool in geology field-trip courses

206-213 Carson, R.J., and Sadd, J.L.
Land-use-planning writing assignment for an environmental-geology course

213-216 Mendelson, C.V.
Constructional morphology and exaption as perspectives for a term project in paleontology

217-220 Fryer, K.H.
Regional geological context for a course in petrography

221-223 Evans, J.E.
Research-grant proposals as a class writing assignment in a graduate-level geology course
224-226 Allen, J.C.
Integrating undergraduate research with a writing program
227-229 Snow, R.S.
Early writing in the research mode via digital modeling of rivers
230-231 Conrad, S.H., and Macdonald, R.H.
Balancing teaching and learning geology on the writing fulcrum
232-236 Mirsky, A.
Writing assignments as a continuum in geoscience education
237-239 Elberty, W.T.Jr., and Romey, W.D.
"What are you interested in" as a writing assignment theme
240-242 Yelderman, J.C.Jr., and Hayward, O.T.
Geology through communication at Baylor University
370-372 Conrad, S.H.
Reading and abstracting journal articles in sedimentology and stratigraphy
422 Allen, J.E.
Exercise in imagineering and writing

ENGINEERING AND ENVIRONMENTAL GEOLOGY

33 Nishenko, S.P., and Bollinger, G.A.
Food for thought
206-213 Carson, R.J., and Sadd, J.L.
Land-use-planning writing assignment for an environmental-geology course
227-229 Snow, R.S.
Early writing in the research mode via digital modeling of rivers
279-283 D'Allura, J.A.
Interactive education in an introductory environmental-geology course
291-299 Thieler, E.R., and Bush, D.M.
Hurricanes Gilbert and Hugo send powerful messages for coastal development

ERRATA

EXTRATERRESTRIAL GEOLOGY

361-362 Davidson, M.W., and Lofgren, G.E.
Cover photomicrograph of thin section of lunar basalt

FOOD FOR THOUGHT

8 Volpe, E.P.
11 Paulos, J.A.
18 Moore, J.A.
27 Nielsen, R.
30 Amer. Assoc. Adv. Sci.
33 Nishenko, S.P., and Bollinger, G.A.
47 Hubble, E.
55 Bloch, E.
69 Haney, D.C.
100 Moore, J.A.
102 Burke, J.
126 Green, K.C.
132 Amer. Assoc. Adv. Sci.
141 Reif, G.
173 Proctor, R.N.
195 Amer. Assoc. Adv. Sci.
203 Paulos, J.A.
220 Culliton, B.J.
226 Groat, C.G.
283 Rodgers, J.
288 Muller, R.
302 Amer. Assoc. Adv. Sci.
324 Tobias, S.
330 Mermin, N.D.
355 Trefil, J.
372 Garfield, E.
375 Hitchcock, J.
397 McPhee, J.
444 Trefil, J.

GEOCHEMISTRY

31-33 Emiliani, C.
Avogadro Number and mole: a royal confusion
44-47 Cawthorn, R.G.
Simulation of layered magma chambers
127-132 Dutch, S.I.
Geochemical calculations using spreadsheets
444 Jorstad, R.B.
Down-to-Earth software reviews

GEOCHRONOLOGY

9-11 Ritger, S.D., and Cummins, R.H.
Using student-created metaphors to comprehend geologic time
127-132 Dutch, S.I.
Geochemical calculations using spreadsheets
160 Duex, T.W.
"Roll model" for illustrating geologic time

GEOLOGY – GENERAL

56-57 Picard, M.D.
A poet can change a tire
67-69 Allen, J.E.
How geologists think - the method of multiple working hypotheses
146-149 Picard, M.D.
A geologist at sea
243-246 Picard, M.D.
Shooting hoops
336-337 Picard, M.D.
Adding a specialty
397 McPhee, J.
Food for Thought

GEOLOGY – EMPLOYMENT

GEOLOGY – FIELD TRIPS, FIELD WORK, SUMMER COURSES

1-2 Stout, D.L.
Cover photo of angular unconformity at Siccar Point, Scotland
2, 74 Stout, D.L.
Field trip: Great Britain's classic geologic sites
28-30 Hazen, R.M., and Trefil, J.S.
Achieving geological literacy
35-43 Custer, S.G.
Snow as a field-teaching medium for earth science
69 Haney, D.C.
Food for thought
145 Fischman, S.
Cartoon about transgressive stratigraphic sequence

170 Advertisement for NAGT's field trip to Great Britain's classic geologic field sites
190-195 Niemitz, J.W., and Potter, N. Jr. The scientific method and writing in introductory landscape-development laboratories
204-205 Stanesco, J.D. The personal journal as a learning and evaluation tool in geology field-trip courses
217-220 Fryer, K.H. Regional geological context for a course in petrography
272-278 Hannibal, J.T. Interpreting urban geology
312 Fischman, S. Cartoon on fault interpretation
333-335 Moody, J.B., and Mosher, S. Association for Women Geoscientists Foundation Outstanding Educator Award
419-421 Richard, B. 1991 NAGT summer Field-Course Program

GEOLOGY – LITERATURE AND LIBRARIES

12 Fischman, S. Cartoon on Pleistocene author and publisher
56-57 Picard, M.D. A poet can change a tire
68-69 Trend, D.D. Have you read . . . ?
104-105 Lerud, J.V.O. The Geoscience Information Society and geoscience education
146-149 Picard, M.D. A geologist at sea
159 Trent, D.D. Have you read . . . ?
206-213 Carson, R.J., and Sadd, J.L. Land-use-planning writing assignment for an environmental-geology course
243-246 Picard, M.D. Shooting hoops
336-337 Picard, M.D. Adding a specialty
370-372 Conrad, S.H. Reading and abstracting journal articles in sedimentology and stratigraphy
428-431 Picard, M.D. Scanno landslide dam, the Abruzzi, east-central Italy

GEOLOGY – PROFESSIONAL AND PUBLIC AFFAIRS

4-5 Stenstrom, R.C. Teaching, research, and promotion – Is science education in decay?
33 Nishenko, S.P., and Bollinger, G.A. Food for thought

GEOLOGY – SUMMER FIELD COURSES

419-421 Richard, B. 1991 NAGT summer Field-Course Program

GEOLOGY – TEACHING AND CURRICULUM

4-5 Stenstrom, R.C. Teaching, research, and promotion – Is science education in decay?
6-8 Hayes, J.B., and Bailey, S.W. Sturges W. Bailey: Neil Miner Awardee for 1990
9-11 Ritger, S.D., and Cummins, R.H. Using student-created metaphors to comprehend geologic time
23-27 Bjornerud, M.G. Conveying principles of finite strain with standard graphics software
35-43 Custer, S.G. Snow as a field-teaching medium for earth science
44-47 Cawthorn, R.G. Simulation of layered magma chambers
52-55 Singh, R.J. Diagrams and test files for use in introductory geology courses
89-92 Stout, D.L. The National Association of Geology Teachers and its role in geoscience education
92-94 Harrison, C. The role of the American Geophysical Union in geoscience education
95-98 Peck, D.L. Role of the federal government in geoscience education
98-100 Press, F. Geoscience education as viewed from the National Academy of Sciences
103-104 Groat, C.G. The American Geological Institute and geoscience education
104-105 Lerud, J.V.O. The Geoscience Information Society and geoscience education
106-108 Suiter, M. The Association of Woman Geoscientists and geoscience education
108-110 Brunkhorst, B.J. The National Science Teachers Association and geoscience education
111-112 Curtis, D.M. The Geological Society of America's "Science Awareness Through Geoscience Education" (SAGE) Program
113-117 Ostrom, M.E. State geological surveys and geoscience education
117-118 Ireton, F.W. The National Earth Science Teachers Association (NESTA) and geoscience education
118-120 Gibbs, J.A. The American Association of Petroleum Geologists and geoscience education
120-121 Schneiderman, J.S. Historical inquiry spurs research curiosity
122-126 Davies, D.J. Revel in geology! Geological science education for the entire community
127-132 Dutch, S.I. Geochemical calculations using spreadsheets
133-141 Rogers, R.D. How do we recognize a fault when we see one?
142-145 Palmer, A.R. What should my neighbor (and thus every high-school graduate) know about the geosciences?
145 Fischman, S. Cartoon about transgressive stratigraphic sequence

160 Duex, T.W.
"Roll model" for illustrating geologic time
178-180 Davis, L.E., Eves, R.L., Corner, H.M., and Urbanczyk, K.M.
Student writing as a tool for writing across the curriculum in large introductory-geology courses
181-184 Halsor, S.P., Faul-Halsor, C.L., and Heaman, P.B.
Enhanced student learning through writing in a physical-geology class
184 Fischman, S.
Cartoon on writing for geology classes
185-187 Schneiderman, J.S.
Learning geology by writing about the history of geology
187-189 Coles, K.S.
Journal assignments in an introductory-geology course help the student and the teacher
190-195 Niemitz, J.W., and Potter, N. Jr.
The scientific method and writing in introductory landscape-development laboratories
196-198 Beiersdorfer, R.E., and Haynes, J.
An integrated approach to geologic writing for non-science majors based on study of a California river
199-201 Macdonald, R.H.
Writing assignments challenge students in a physical-geology course
202-203 Clemons, J.
Classroom strategies for introductory geology
204-205 Stanesco, J.D.
The personal journal as a learning and evaluation tool in geology field-trip courses
213-216 Mendelson, C.V.
Constructional morphology and exaptation as perspectives for a term project in paleontology
217-220 Fryer, K.H.
Regional geological context for a course in petrography
221-223 Evans, J.E.
Research-grant proposals as a class writing assignment in a graduate-level geology course
224-226 Allen, J.C.
Integrating undergraduate research with a writing program
227-229 Snow, R.S.
Early writing in the research mode via digital modeling of rivers
230-231 Conrad, S.H., and Macdonald, R.H.
Balancing teaching and learning geology on the writing fulcrum
232-236 Mirsky, A.
Writing assignments as a continuum in geoscience education
237-239 Elberty, W.T.Jr., and Romey, W.D.
"What are you interested in" as a writing assignment theme
240-242 Yelderman, J.C.Jr., and Hayward, O.T.
Geology through communication at Baylor University
270, Stout, D.L.
354-355 President's message - Progress in the geosciences at the national level
279-283 D'Allura, J.A.
Interactive education in an introductory environmental-geology course
284-288 Bezzi, A.
A Macintosh program for improving three-dimensional thinking
289-290 Gunter, M.E., and Schares, S.M.
Computerized optical-mineralogy calculations
303-305 Bart, H.A.
A hands-on approach to understanding topographic maps and their construction
306-310 Gerencher, J.J.Jr., and Jackson, R.F.
Classroom utilization of a multi-axis Lehman seismograph system
311-312 Hatfield, C.B.
Use of current news in teaching geology
319-321 Corgan, J.X., and Walker, R.E.
Using *Time-machine Earth* in the classroom
325-330 Westerback, M.E., and Azer, N.
Realistic expectations for rock identification
358 Potter, N.
NAGT symposium at 1991 GSA in San Diego – New approaches to introductory-geology courses
370-372 Conrad, S.H.
Reading and abstracting journal articles in sedimentology and stratigraphy
373-375 Gunter, M.E.
In-class computer demonstrations for physical geology
375 Hitchcock, J.
Food for Thought
379-387 Brown, V.M., and Harrell, J.A.
Megascopic classification of rocks
388-392 Shea, J.H.
A computer-based subduction-zone-earthquake exercise for introductory-geology classes
422 Allen, J.E.
Exercise in imagineering and writing

GEOLOGY - WOMEN AND MINORITIES

333-335 Moody, J.B., and Mosher, S.
Association for Women Geoscientists Foundation Outstanding Educator Award
387 Fischman, S.
Cartoon on the discovery of fire

GEOPHYSICS - GENERAL

12-14 Zaffo, P.A.
Tabletop aurora demonstrator
92-94 Harrison, C.
The role of the American Geophysical Union in geoscience education
393-397 Palmore, J.
A review of nonlinear dynamics, chaos and fractals

GEOPHYSICS - APPLIED

GEOPHYSICS - SEISMOLOGY

33 Nishenko, S.P., and Bollinger, G.A.
Food for thought
306-310 Gerencher, J.J.Jr., and Jackson, R.F.
Classroom utilization of a multi-axis Lehman seismograph system
349-353 Grogger, P.K., and Cross, W.II
You don't mean I've been teaching something wrong? And other questions asked and answered

388-392 Shea, J.H.
A computer-based subduction-zone-earthquake exercise for introductory-geology classes
423-427 Grogger, P.K., and Cross, W.II
You don't mean I've been teaching something wrong? and other questions asked and answered

GEOPHYSICS - SOLID EARTH

HISTORY OF GEOLOGY

67-69 Allen, J.E.
How geologists think – the method of multiple working hypotheses
120-121 Schneiderman, J.S.
Historical inquiry spurs research curiosity
170 Advertisement for NAGT's field trip to Great Britain's classic geologic field sites
185-187 Schneiderman, J.S.
Learning geology by writing about the history of geology
356-357 Friedman, G.M.
New classification of sandstone: discussion

HISTORY OF SCIENCE

102 Burke, J.
Food for thought
355 Trefil, J.
Food for thought

HYDROGEOLOGY AND HYDROLOGY

35-43 Custer, S.G.
Snow as a field-teaching medium for earth science
174-175 Millette, P.M.
Real-world writing in as secondary-school earth-science class
196-198 Beiersdorfer, R.E., and Haynes, J.
An integrated approach to geologic writing for non-science majors based on study of a California river

LETTERS TO THE EDITOR

77 Ellis, W.C.
Offer to donate back issues of journals to school library
160 Duex, T.W.
"Roll model" for illustrating geologic time
356-357 Friedman, G.M.
New classification of sandstone: discussion

MARINE GEOLOGY AND OCEANOGRAPHY

15-18 Railsback, L.B.
A model for teaching the dynamical theory of tides
77 O'Dunn, S.
NSF oceanography short course for instructors of undergraduate marine science, San Diego, Summer, 1991
291-299 Thieler, E.R., and Bush, D.M.
Hurricanes Gilbert and Hugo send powerful messages for coastal development

METEOROLOGY

12-14 Zaffo, P.A.
Tabletop aurora demonstrator
291-299 Thieler, E.R., and Bush, D.M.
Hurricanes Gilbert and Hugo send powerful messages for coastal development

MINERALOGY AND CRYSTALLOGRAPHY

85-86 Keller, W.D.
Cover photo of platy kaolinite from Keokuk, Iowa
289-290 Gunter, M.E., and Schares, S.M.
Computerized optical-mineralogy calculations
367-369 Ward, R.F.
Improved accuracy for CIPW norms
398-402 Garlick, G.D., and Kamb, W.B.
The strange optical properties of ulexite
403-418 Davidson, M.W., and Lofgren, G.E.
Photomicrography in the geological sciences

MISCELLANEOUS AND MATHEMATICAL GEOLOGY

11 Paulos, J.A.
Food for thought
127-132 Dutch, S.I.
Geochemical calculations using spreadsheets
227-229 Snow, R.S.
Early writing in the research mode via digital modeling of rivers
289-290 Gunter, M.E., and Schares, S.M.
Computerized optical-mineralogy calculations
299-302 Woronow, A.
Enigmas and solutions in the analyses of compositional data
322-324 De Paor, D.G.
A modern solution to the classical three-point problem
364-367 Piazzola, J., and Cavaroc, V.V.
Comparison of grain-size-distribution statistics determined by sieving and by thin-section analyses
367-369 Ward, R.F.
Improved accuracy for CIPW norms
388-392 Shea, J.H.
A computer-based subduction-zone-earthquake exercise for introductory-geology classes
393-397 Palmore, J.
A review of nonlinear dynamics, chaos and fractals

MISCELLANEOUS ANNOUNCEMENTS

77 O'Dunn, S.
NSF oceanography short course for instructors of undergraduate marine science, San Diego, Summer, 1991
77 AGI's minority geoscience scholarships triple for 1990-91
77 Teaching opportunities overseas
165 SEPM
Guide for helping precollege teachers
358 Bliss, V.
Science teachers invited to geology meeting

NAGT - GENERAL

79-82 Shea, J.H.
Instructions to contributors
89-92 Stout, D.L.
The National Association of Geology Teachers and its role in geoscience education
170 Advertisement for NAGT's field trip to Great Britain's classic geologic field sites
362 Stout, D.L.
Message from NAGT President Dorothy Stout
427 Shea, J.H.
Statement of ownership, management and circulation

NAGT - AFFAIRS AND MEETINGS

1-2 Stout, D.L.
Cover photo of angular unconformity at Siccar Point, Scotland

2, 74 Stout, D.L.
Field trip: Great Britain's classic geologic sites

4-5 Stenstrom, R.C.
Teaching, research, and promotion – Is science education in decay?

6-8 Hayes, J.B., and Bailey, S.W.
Sturges W. Bailey: Neil Miner Awardee for 1990

73-74 Christman, R.A.
Summary of NAGT Council and Executive Committee meeting minutes

76 Hendrix, T.E.
NAGT-USGS Cooperative Summer-Field-Training Program

173 Macdonald, R.H., and Conrad, S.H.
Writing assignments as a tool for teaching and learning geology

270, 354-355 Stout, D.L.
President's message – Progress in the geosciences at the national level

358 Potter, N.
NAGT symposium at 1991 GSA in San Diego – New approaches to introductory-geology courses

358 Bliss, V.
Science teachers invited to geology meeting

362 Stout, D.L.
Message from NAGT President Dorothy Stout

NAGT - NEIL MINER AWARD

6-8 Hayes, J.B., and Bailey, S.W.
Sturges W. Bailey: Neil Miner Awardee for 1990

NAGT - OEST PROGRAM

247-253 Brown, C.Q.
Outstanding earth-science teachers - 1990

362 Stout, D.L.
Message from NAGT President Dorothy Stout

443 Stadum, C.J.
Far Western OEST

NAGT - SECTIONS

75 Officers of NAGT sections

166 Far Western Section - Presentation of Robert Wallace Webb Award to Dorothy L. Stout

NAGT - SUMMER FIELD-COURSE SCHOLARSHIP PROGRAM

419-421 Richard, B.
1991 NAGT summer Field-Course Program

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

OCEANOGRAPHY

PALEONTOLOGY - GENERAL

122-126 Davies, D.J.
Revel in geology! Geological science education for the entire community

213-216 Mendelson, C.V.
Constructional morphology and exaptation as perspectives for a term project in paleontology

336-337 Picard, M.D.
Adding a specialty

PALEONTOLOGY - INVERTEBRATE

184 Fischman, S.
Cartoon on writing for geology classes

269-270 Ausich, W.I., and Bottjer, D.J.
Cover photo of crinoid fossils

313-319 Ausich, W.I., and Bottjer, D.J.
History of tiering among suspension feeders in the benthic marine ecosystem

332 Jorstad, R.B.
Down-to-Earth software reviews

PALEONTOLOGY - PALEOBOTANY

PALEONTOLOGY - VERTEBRATE

122-126 Davies, D.J.
Revel in geology! Geological science education for the entire community

169-170 Macdonald, R.H.
Cover photo of fossil right whale being excavated from the Pliocene Yorktown Formation, Hampton, VA.

PETROLOGY - GENERAL

35-43 Custer, S.G.
Snow as a field-teaching medium for earth science

217-220 Fryer, K.H.
Regional geological context for a course in petrography

272-278 Hannibal, J.T.
Interpreting urban geology

299-302 Woronow, A.
Enigmas and solutions in the analyses of compositional data

325-330 Westerback, M.E., and Azer, N.
Realistic expectations for rock identification

379-387 Brown, V.M., and Harrell, J.A.
Megascopic classification of rocks

403-418 Davidson, M.W., and Lofgren, G.E.
Photomicrography in the geological sciences

PETROLOGY - IGNEOUS AND METAMORPHIC

44-47 Cawthorn, R.G.
Simulation of layered magma chambers

361-362 Davidson, M.W., and Lofgren, G.E.
Cover photomicrograph of thin section of lunar basalt

367-369 Ward, R.F.
Improved accuracy for CIPW norms

PETROLOGY - SEDIMENTARY

19-22 Van Houten, F.B.
Interpreting Silurian Clinton oolitic ironstones – 1850-1975

35-43 Custer, S.G.
Snow as a field-teaching medium for earth science

85-86 Keller, W.D.
Cover photo of platy kaolinite from Keokuk, Iowa

145 Fischman, S.
Cartoon about transgressive stratigraphic sequence

221-223 Evans, J.E.
Research-grant proposals as a class writing assignment in a graduate-level geology course

325-330 Westerback, M.E., and Azer, N.
Realistic expectations for rock identification
356-357 Friedman, G.M.
New classification of sandstone: discussion
364-367 Piazzola, J., and Cavaroc, V.V.
Comparison of grain-size-distribution statistics determined by sieving and by thin-section analyses
370-372 Conrad, S.H.
Reading and abstracting journal articles in sedimentology and stratigraphy

PHILOSOPHY OF SCIENCE

47 Hubble, E.
Food for thought
67-69 Allen, J.E.
How geologists think – the method of multiple working hypotheses
133-141 Rogers, R.D.
How do we recognize a fault when we see one?
185-187 Schneiderman, J.S.
Learning geology by writing about the history of geology
283 Rodgers, J.
Food for thought
288 Muller, R.
Food for thought
299-302 Woronow, A.
Enigmas and solutions in the analyses of compositional data
302 Amer. Assoc. Adv. Sci.
Food for thought
330 Mermin, N.D.
Food for thought
444 Treifil, J.
Food for Thought

PLATE TECTONICS

319-321 Corgan, J.X., and Walker, R.E.
Using *Time-machine Earth* in the classroom
388-392 Shea, J.H.
A computer-based subduction-zone-earthquake exercise for introductory-geology classes

POETRY

56-57 Picard, M.D.
A poet can change a tire
246 Picard, M.D.
Worland: fall 1987

REVIEWS

REVIEW ARTICLES

19-22 Van Houten, F.B.
Interpreting Silurian Clinton oolitic ironstones - 1850-1975
133-141 Rogers, R.D.
How do we recognize a fault when we see one?
313-319 Ausich, W.I., and Bottjer, D.J.
History of tiering among suspension feeders in the benthic marine ecosystem
403-418 Davidson, M.W., and Lofgren, G.E.
Photomicrography in the geological sciences

REVIEWS - BOOK

62-65 Langenheim, R.L., Jr.
Books for geoscientists
154-158 Langenheim, R.L.Jr.
Books for geoscientists
254-258 Langenheim, R.L.Jr.
Books for geoscientists
342-347 Langenheim, R.L.Jr.
Books for geoscientists
393-397 Palmore, J.
A review of nonlinear dynamics, chaos and fractals
432-437 Langenheim, R.L.Jr.
Books for geoscientists

REVIEWS - COMPUTER SOFTWARE

70-73 Jorstad, R.B.
Down-to-earth software reviews
161-162 Jorstad, R.B.
Down-to-earth software reviews
319-321 Corgan, J.X., and Walker, R.E.
Using *Time-machine Earth* in the classroom
444 Jorstad, R.B.
Down-to-Earth software reviews

REVIEWS - FILMS

160 Romey, W.D.
Review of "Earth nectar: Napa Valley wines and the earth from which they arise"

REVIEWS - MUSEUMS

58-61 Romey, W.D.
The museum and gallery corner
150-153 Romey, W.D.
The museum and gallery corner
259-262 Romey, W.D.
The museum and gallery corner
272-278 Hannibal, J.T.
Interpreting urban geology
338-341 Romey, W.D.
The museum and gallery corner
439-442 Romey, W.D.
The museum and gallery corner

REVIEWS - MUSEUMS BY LOCALITY

United States
150 Colorado
61 Kansas
440 Maine
152 Missouri
151 Missouri
440 New York
438 New York
262 New York
260 New York
259 New York
442 North Carolina
272 Ohio
151 Ohio
152 Ohio
153 Pennsylvania
440 Texas
340 Texas
341 Texas
438 Texas
439 Texas

Elsewhere
261 British Columbia
338 British Columbia

58 France
60 France
59 France
261 Jordan
60 Ontario
338 Ontario
340 Quebec
150 Quebec

STRATIGRAPHY, HISTORICAL GEOLOGY, PALEOECOLOGY

1-2 Stout, D.L.
Cover photo of angular unconformity at Siccar Point, Scotland
2, 74 Stout, D.L.
Field trip: Great Britain's classic geologic sites
19-22 Van Houten, F.B.
Interpreting Silurian Clinton oolitic ironstones – 1850-1975
122-126 Davies, D.J.
Revel in geology! Geological science education for the entire community
145 Fischman, S.
Cartoon about transgressive stratigraphic sequence
160 Duex, T.W.
"Roll model" for illustrating geologic time
313-319 Ausich, W.I., and Bottjer, D.J.
History of tiering among suspension feeders in the benthic marine ecosystem
370-372 Conrad, S.H.
Reading and abstracting journal articles in sedimentology and stratigraphy

STRUCTURAL GEOLOGY

1-2 Stout, D.L.
Cover photo of angular unconformity at Siccar Point, Scotland
2, 74 Stout, D.L.
Field trip: Great Britain's classic geologic sites
23-27 Bjornerud, M.G.
Conveying principles of finite strain with standard graphics software
133-141 Rogers, R.D.
How do we recognize a fault when we see one?
284-288 Bezzi, A.
A Macintosh program for improving three-dimensional thinking
312 Fischman, S.
Cartoon on fault interpretation
322-324 De Paor, D.G.
A modern solution to the classical three-point problem

SURFICIAL GEOLOGY – GENERAL

SURFICIAL GEOLOGY – GEOMORPHOLOGY

196-198 Beiersdorfer, R.E., and Haynes, J.
An integrated approach to geologic writing for non-science majors based on study of a California river
227-229 Snow, R.S.
Early writing in the research mode via digital modeling of rivers
291-299 Thieler, E.R., and Bush, D.M.
Hurricanes Gilbert and Hugo send powerful messages for coastal development
397 McPhee, J.
Food for Thought
428-431 Picard, M.D.
Scanno landslide dam, the Abruzzi, east-central Italy

SURFICIAL GEOLOGY – QUATERNARY GEOLOGY

12 Fischman, S.
Cartoon on Pleistocene author and publisher

SURFICIAL GEOLOGY – SOILS

397 McPhee, J.
Food for Thought

VOLCANOES AND VOLCANISM

Author Index to Volume 39 (1991)

344 Allaby, A.
344 Allaby, M.
344 Allegre, C.
224 Allen, J.C.
67 Allen, J.E.
257 Allen, J.E.
261 Allen, J.E.
422 Allen, J.E.
432 Alt, D.D.
30 Amer. Assoc. Adv. Sci.
132 Amer. Assoc. Adv. Sci.
195 Amer. Assoc. Adv. Sci.
302 Amer. Assoc. Adv. Sci.
65 Anderson, D.L.
64 Anderson, V.
255 Armstrong, R.L.
269 Ausich, W.I.
313 Ausich, W.I.
325 Azer, N.
7 Bailey, S.W.
166 Baldwin, J.
435 Barker, A.J.
303 Bart, H.A.
344 Bates, R.L.
196 Beiersdorfer, R.E.
64 Berkeley, E.
344 Bernstein, H.
284 Bezzi, A.
23 Bjornerud, M.G.
432 Blair, R.W.Jr.
358 Bliss, v.
55 Bloch, E.
155 Blount, C.W.
62 Boardman, J.
33 Bollinger, G.A.
63 Bolton, T.
256 Bork, K.B.
154 Bornhorst, T.J.
269 Bottjer, D.J.
313 Bottjer, D.J.
437 Bowes, D.R.
158 Bradshaw, P.M.D.
63 Brasier, M.D.
158 Brice, W.R.
156 Brigham-Grette, J.
247 Brown, C.Q.
344 Brown, E.
257 Brown, L.L.
379 Brown, V.M.
108 Brunkhorst, B.J.
102 Burke, J.
291 Bush, D.M.
256 Carozzi, A.V.
258 Carozzi, M.
206 Carson, R.J.
364 Cavaroc, V.V.
44 Cawthorn, R.G.
254 Chaloner, W.G.
344 Chan, C.
344 Chen, D.
254 Chen, F.
254 Chen, W.-P.
254 Chen, Y.
254 Chen, Z.
73 Christman, R.A.
346 Chronic, H.
202 Clemons, J.
187 Coles, K.S.
154 Collinson, J.D.
173 Conrad, S.H.
230 Conrad, S.H.
370 Conrad, S.H.

150 Corgan, J.X.
151 Corgan, J.X.
261 Corgan, J.X.
319 Corgan, J.X.
343 Corgan, J.X
442 Corgan, J.X.
437 Corliss, W.R.
178 Corner, H.M.
436 Cowen, R.
63 Cowie, J.W.
255 Cox, A.V.
255 Craig, L.E.
254 Crane, P.R.
342 Cross, T.A.
163 Cross, W.II
265 Cross, W.II
349 Cross, W.II
423 Cross, W.II
220 Culliton, B.J.
9 Cummins, R.H.
111 Curtis, D.M.
344 Curtis, J.
34 Custer, S.G.
279 D'Allura, J.A.
361 Davidson, M.W.
403 Davidson, M.W.
122 Davies, D.J.
263 Davis, A.
178 Davis, L.E.
322 De Paor, D.G.
256 Deluc, G.-A.
258 Dietrich, R.V.
344 Dill, S.
437 Dodd, R.
160 Duex, T.W.
127 Dutch, S.I.
258 Dutro, J.T.Jr.
442 Ebdon, D.W.
155 Ehlers, E.J.
237 Elberty, W.T.Jr.
77 Ellis, W.C.
31 Emiliani, C.
157 Emiliani, C.
221 Evans, J.E.
178 Eves, R.L.
181 Faul-Halsor, C.L.
12 Fischman, S.
145 Fischman, S.
184 Fischman, S.
312 Fischman, S.
387 Fischman, S.
258 Fosse, R.M.
356 Friedman, G.M.
254 Friis, E.M.
254 Fry, W.L.
217 Fryer, K.H.
254 Gao, Z.
372 Garfield, E.
398 Garlick, G.D.
306 Gerencher, J.J.
432 Gerrard, J.
51 Geyer, A.R.
162 Geyer, A.R.
118 Gibbs, J.A.
156 Gill, R.
345 Gray, J.
126 Green, K.C.
155 Greensmith, J.T.
158 Gribble, C.D.
103 Groat, C.G.
226 Groat, C.G.
163 Grogger, P.K.
265 Grogger, P.K.
349 Grogger, P.K.
423 Grogger, P.K.
289 Gunter, M.E.
373 Gunter, M.E.
258 Guthrie, R.D.
181 Halsor, S.P.
69 Haney, D.C.
272 Hannibal, J.T.
255 Harland, W.B.
436 Hammer
379 Harrell, J.A.
62 Harris, S.L.
92 Harrison, C.
311 Hatfield, C.B.
153 Hayes, G.E.
6 Hayes, J.B.
196 Haynes, J.
157 Hayward, O.T.
240 Hayward, O.T.
28 Hazen, R.M.
181 Heaman, P.B.
76 Hendrix, T.E.
346 Hintze, L.F.
375 Hitchcock, J.
344 Hollingsworth, R.
62 Hopkins, D.M.
47 Hubble, E.
432 Hyndman, D.W.
117 Ireton, F.W.
255 Isaaks, E.H.
306 Jackson, R.F.
176 Jones, B.W.B.
70 Jorstad, R.B.
161 Jorstad, R.B.
263 Jorstad, R.B.
332 Jorstad, R.B.
442 Jorstad, R.B.
398 Kamb, V.B.
344 Karas, T.
85 Keller, W.D.
62 Langenheim, R.L.Jr.
154 Langenheim, R.L.Jr.
158 Langenheim, R.L.Jr.
254 Langenheim, R.L.Jr.
255 Langenheim, R.L.Jr.
342 Langenheim, R.L.Jr.
432 Langenheim, R.L.Jr.
156 Langway, C.C.
64 Laporte, L.F.
346 Laubach, S.E.
104 Lerud, J.V.
344 Levine, A.
158 Levinson, A.A.
361 Lofgren, G.E.
403 Lofgren, G.E.
154 Lumsden, D.N.
155 Lumsden, D.N.
434 Lumsden, D.N.
169 Macdonald, R.H.
173 Macdonald, R.H.
199 Macdonald, R.H.
230 Macdonald, R.H.
64 Mandarino, J.A.
255 Mann, C.J.
433 Marston, R.A.
65 Mawer, C.K.
441 McCartney, K.
154 McClelland, L.
397 McPhee, J.
213 Mendelson, C.V.
330 Mermin, N.D.
442 Miles C.W.
258 Miles, J.A.
174 Millette, P.M.
257 Milsom, J.
232 Mirsky, A.
344 Mitchell, K.
333 Moody, J.B.
18 Moore, J.A.
100 Moore, J.A.
333 Mosher, S.
288 Muller, R.
331 Nappi, C.R.
27 Nielsen, R.
190 Niemitz, J.W.
33 Nishenko, S.P.
77 O'Dunn, S.
156 Oeschger, H.
346 Oldroyd, D.R.
345 Oosterman, M.A.
432 Ore, H.T.
113 Ostrom, M.E.
63 Palmer, A.R.
142 Palmer, A.R.
393 Palmore, J.
63 Palmquist, J.C.
343 Paul, J.S.
11 Paulos, J.A.
203 Paulos, J.A.
95 Peck, D.L.
364 Piazzola, J.
56 Picard, M.D.
146 Picard, M.D.
243 Picard, M.D.
246 Picard, M.D.
336 Picard, M.D.
428 Picard, M.D.
256 Pictet, M.-A.
342 Poelchau, H.S.
358 Potter, N.
190 Potter, N.Jr.
345 Prescott, R.W.
98 Press, F.
173 Proctor, R.N.
15 Railsback, L.B.
344 Rapport, W.
64 Reed, J.C.
141 Reif, F.
419 Richard, B.
9 Ritger, S.D.
101 Roberts, S.M.
283 Rodgers, J.
133 Rogers, R.D.
58 Romey, W.D.
150 Romey, W.D.
157 Romey, W.D.
160 Romey, W.D.
237 Romey, W.D.
259 Romey, W.D.
339 Romey, W.D.
438 Romey, W.D.
151 Romey, W.L.
260 Romey, W.L.
434 Roy, W.R.
206 Sadd, J.L.
289 Schares, S.M.
345 Schmidt, M.T.
120 Schneiderman, J.S.
185 Schneiderman, J.S.
434 Scott, R.W.
79 Shea, J.H.
388 Shea, J.H.
427 Shea, J.H.
445 Shea, J.H.
52 Singh, R.J.
255 Smith, A.G.
64 Smith, D.
255 Smith, D.G.
433 Smith, M.W.
227 Snow, Robin S.
437 Shroba, C.S.
434 Sposito, G.
255 Srivastava, R.M.
441 Stadum, C.J.
204 Stanesco, J.D.
437 Stanton, R.J.
48 Starr, E.M.
4 Stenstrom, R.C.
1 Stout, D.L.
2 Stout, D.L.
89 Stout, D.L.
270 Stout, D.L.
362 Stout, D.L.
376 Stout, D.L.
106 Suiter, M.
156 Swihart, G.H.
62 Taylor, E.M.
291 Thieler, E.R.
433 Thomas, D.S.G.
154 Thompson, D.B.
158 Thompson, I.
344 Thornley, M.
324 Tobias, S.
345 Traverse, A.
355 Trefil, J.
444 Trefil, J.
28 Trefil, J.S.
68 Trent, D.D.
159 Trent, D.D.
254 Tsoi, K.
344 Tyson, K.
178 Urbanczyk, K.M.
19 Van Houten, F.B.
435 Vernon, R.H.
8 Volpe, E.P.
319 Walker, R.E.
433 Walters, J.W.
367 Ward, R.F.
325 Westerback, M.E.
433 Williams, P.J.
299 Woronow, A.
344 Wright, A.
240 Yelderman, J.C.Jr.
157 Young, K.
257 Youngquist, W.
12 Zaffo, P.A.
254 Zou, Q.